

In the Claims:

Please amend the claims as indicated below. This listing of claims replaces all prior versions.

1. (currently amended) An arrangement using a primary battery during an anticipated trailered-equipment towing period for charging a plurality of equipment batteries configured electrically and for operation in a trailered equipment, the arrangement comprising:

a cable for electrically connecting the primary battery with the plurality of equipment batteries; and

a charging circuit that is adapted to charge the equipment batteries by automatically alternating a power connection from the primary battery to each of the equipment batteries, and therein distributing charge to each of the equipment batteries during the anticipated towing period one battery at a time.

2. (previously presented) The arrangement of claim 1, further including a wiring harness assembly that is adapted to permit charging of the plurality of equipment batteries while the batteries are being towed, and that includes the cable.

3. (currently amended) The arrangement of claim 2, wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries according to a circuit-defined time interval corresponding to the anticipated towing period.

4. (currently amended) The arrangement of claim 2, wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries according to a user-established time interval corresponding to the anticipated towing period.

5. (original) The arrangement of claim 2, wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries in response to an indication that said one of the equipment batteries has reached a sufficiently-charged threshold level.

6. (original) The arrangement of claim 2, wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries at a time that is defined as a function of a user-defined expected travel time.

7. (currently amended) A vehicle-trailer arrangement for charging during an anticipated trailer equipment towing period a plurality of equipment batteries configured electrically in and for operation in a trailer equipment, the arrangement comprising:

a vehicle battery; and

charging means for automatically charging the equipment batteries using an alternating power connection from the vehicle battery to each of the equipment batteries, and therein distributing charge to each of the equipment batteries during the anticipated towing period one battery at a time.

8. (currently amended) A vehicle-trailer arrangement using a primary battery located in a towing vehicle adapted to tow the trailer equipment during an anticipated trailer equipment towing period, the arrangement for charging a plurality of trailer equipment batteries in a trailer vehicle configured electrically in and for operation of at least one accessory adapted to be operated in the trailer equipment, the arrangement comprising:

an electrical harness; and

a charging circuit adapted to use the electrical harness to charge the trailer equipment batteries by automatically alternating a power connection from the primary

battery to each of the trailered equipment batteries, and therein distributing charge to each of the equipment batteries during the anticipated towing period one battery at a time.

9. (previously presented) The arrangement of claim 8, further including a data communications link adapted to provide feedback to the charging circuit.
10. (previously presented) The arrangement of claim 8, further including a data communications link adapted to provide feedback to the charging circuit, and wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries in response to an indication received via the data communications link that said one of the equipment batteries has reached a sufficiently-charged threshold level.
11. (previously presented) The arrangement of claim 8, further including feedback means for providing feedback data from the equipment batteries to the charging circuit, and wherein the charging circuit automatically stops charging one of the equipment batteries and begins charging another of the equipment batteries in response to the feedback means.
12. (previously presented) The arrangement of claim 1, wherein the charging circuit is adapted to charge three equipment batteries, one at a time.
13. (previously presented) The arrangement of claim 12, wherein at least two of the three equipment batteries are arranged in series.